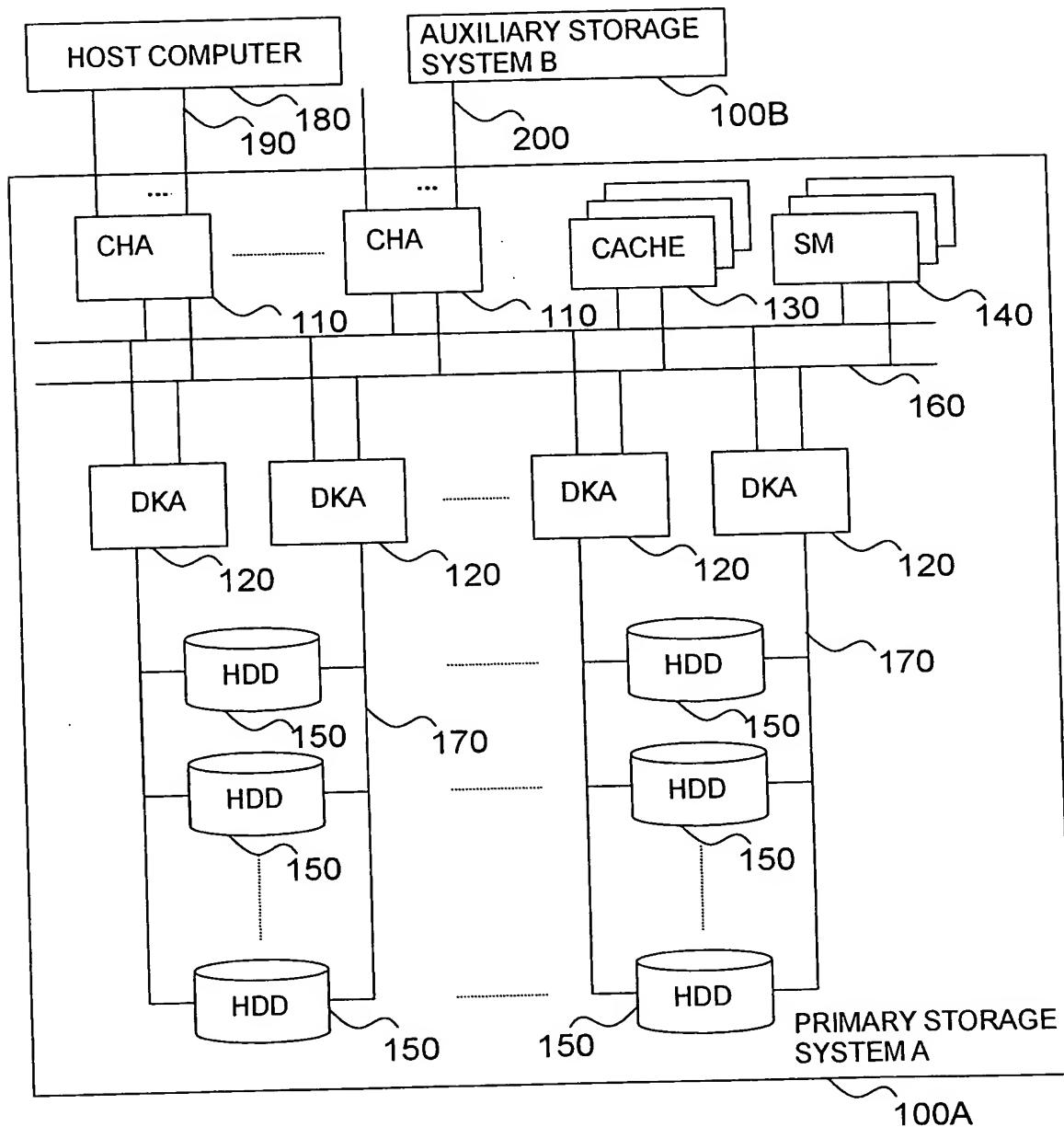


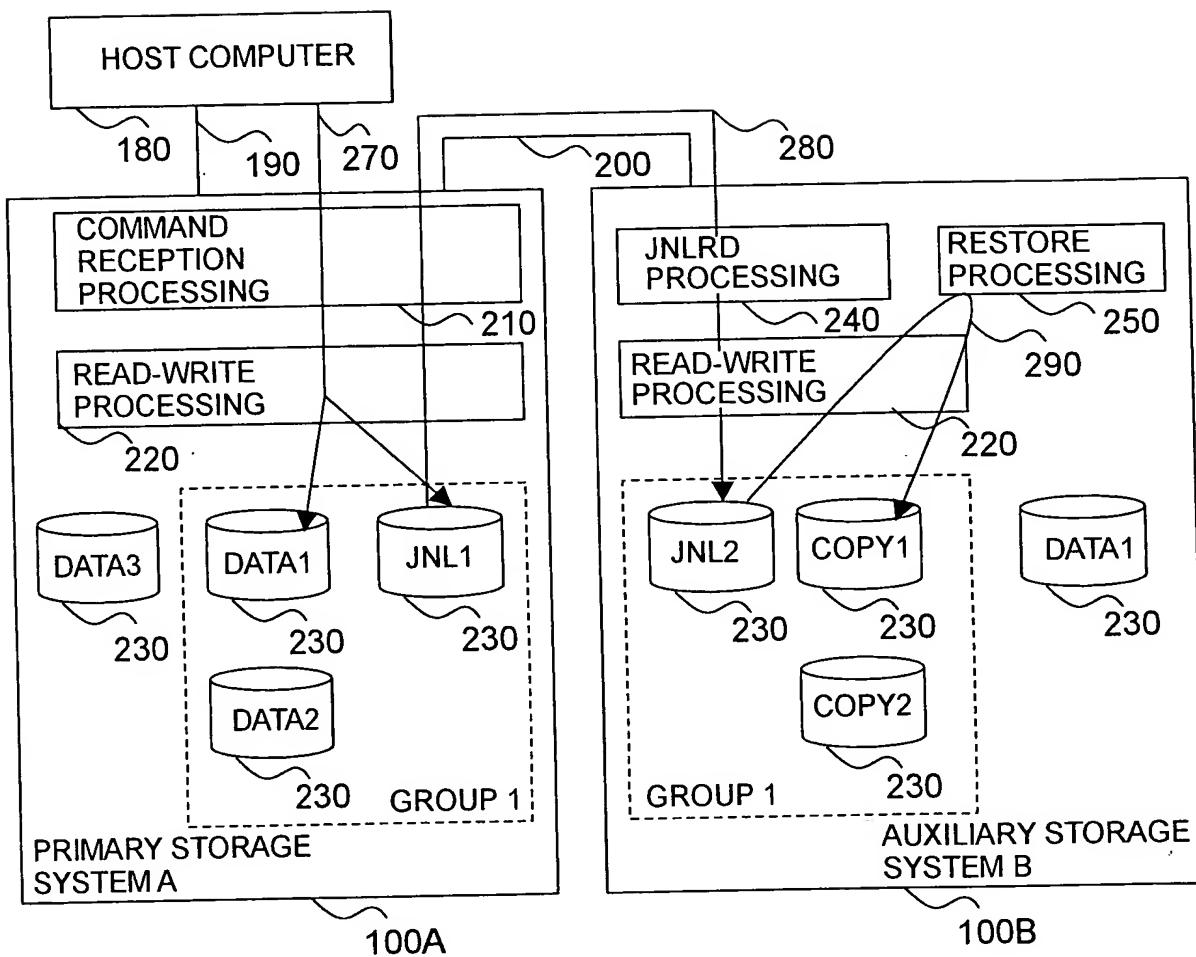
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FIG. 1



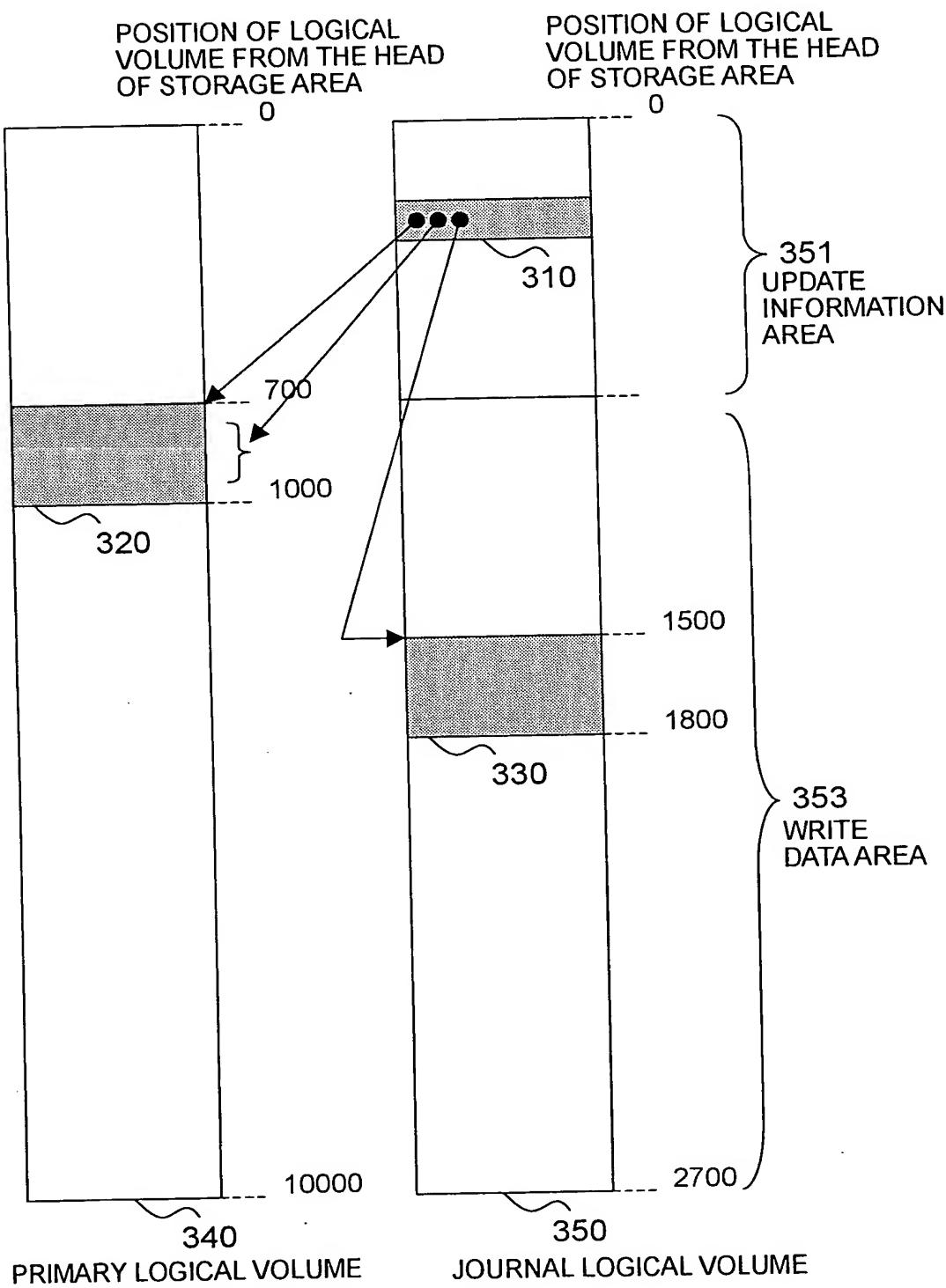
2725

FIG. 2



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FIG. 3



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## FIG. 4

SET ITEM	SETTING VALUE EXAMPLE
TIME OF WRITE COMMAND RECEPTION	1993/3/17, 22:20:10
GROUP NUMBER	1
UPDATE NUMBER	4
LOGICAL ADDRESS OF WRITE COMMAND	LOGICAL VOLUME NUMBER: 1 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 700
DATA SIZE OF WRITE DATA	300
LOGICAL ADDRESS OF JOURNAL LOGICAL VOLUME STORING THE WRITE DATA	LOGICAL VOLUME NUMBER: 4 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 1500

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UPDATE INFORMATION

## FIG. 5

LOGICAL VOLUME NUMBER	VOLUME STATE	FORMAT SYSTEM	CAPACITY (GB)	PAIR NUMBER	PHYSICAL ADDRESS	
					STORAGE DEVICE NUMBER	LOCATION FROM THE HEAD
1	NORMAL	OPEN3	3	1	1	0
2	NORMAL	OPEN6	6	2	1	3
3	UNUSED	OPEN6	6	0	1	9
4	NORMAL	OPEN9	9	0	2	0
5	NORMAL	OPEN3	3	0	2	9
6	UNUSED	OPEN6	6	0	2	12

400

VOLUME INFORMATION

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FIG. 6

PAIR NUMBER	PAIR STATE	PRIMARY STORAGE SYSTEM NUMBER	PRIMARY LOGICAL VOLUME NUMBER	AUXILIARY STORAGE SYSTEM NUMBER	AUXILIARY LOGICAL VOLUME NUMBER	GROUP NUMBER	COPY COMPLETION ADDRESS
1	NORMAL	1	1	2	1	1	0
2	NORMAL	1	2	2	3	1	0
3	UNUSED	0	0	0	0	0	0
4	UNUSED	0	0	0	0	0	0
5	UNUSED	0	0	0	0	0	0

500 PAIR INFORMATION

FIG. 7

GROUP NUMBER	GROUP STATE	PAIR SET	JOURNAL LOGICAL VOLUME NUMBER	UPDATE NUMBER
1	NORMAL	1,2	4	4
2	UNUSED	0	0	0

600 GROUP INFORMATION

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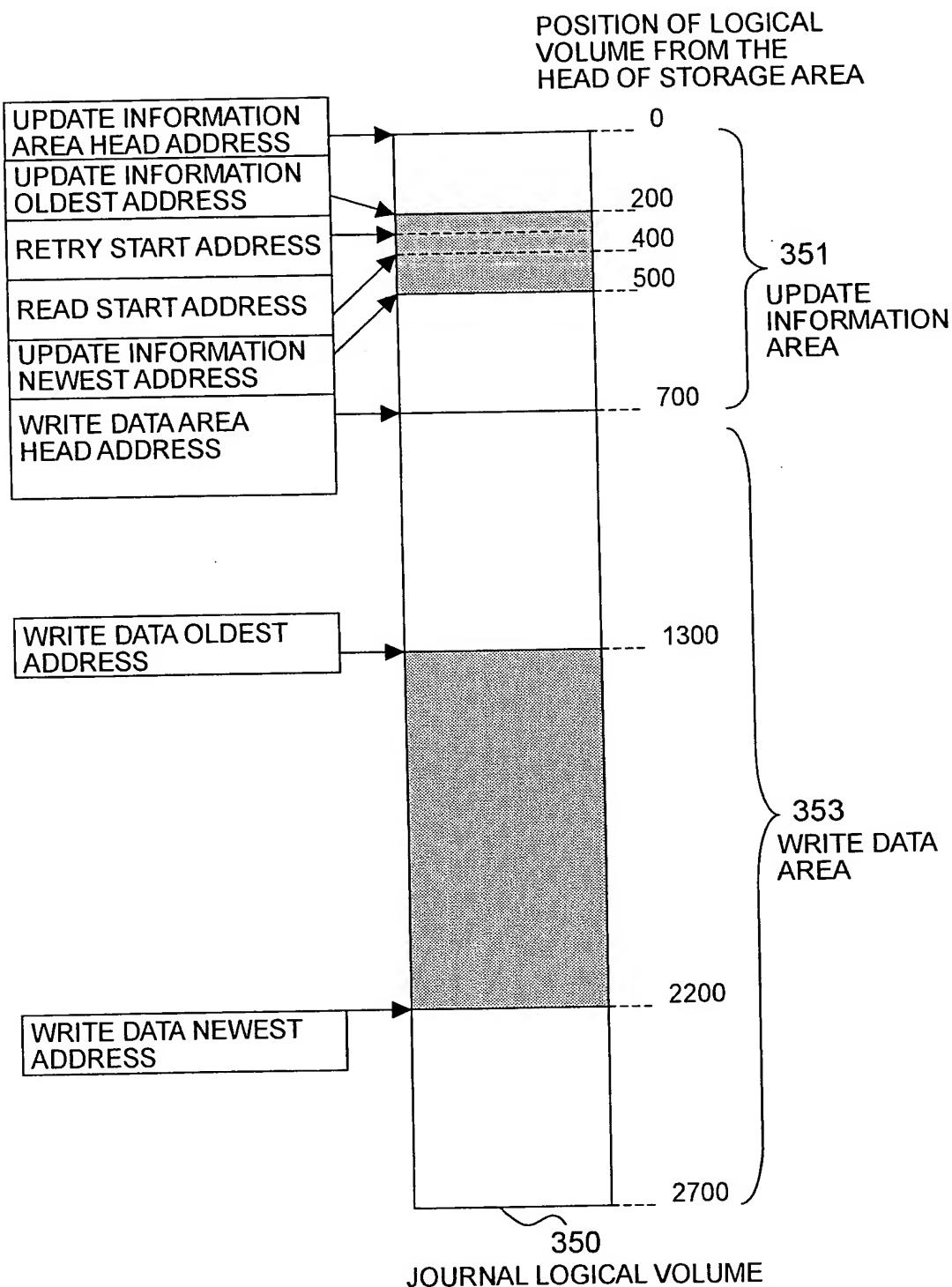
FIG. 8

	AUXILIARY STORAGE SYSTEM NUMBER	LOGICAL ADDRESS	POSITION OF LOGICAL VOLUME FROM THE HEAD OF STORAGE AREA
UPDATE INFORMATION AREA HEAD ADDRESS	2	4	0
WRITE DATA AREA HEAD ADDRESS	2	4	700
UPDATE INFORMATION NEWEST ADDRESS	2	4	500
UPDATE INFORMATION OLDEST ADDRESS	2	4	200
WRITE DATA NEWEST ADDRESS	2	4	2200
WRITE DATA OLDEST ADDRESS	2	4	1300
READ START ADDRESS	2	4	400
RETRY START ADDRESS	2	4	300

700 POINTER INFORMATION

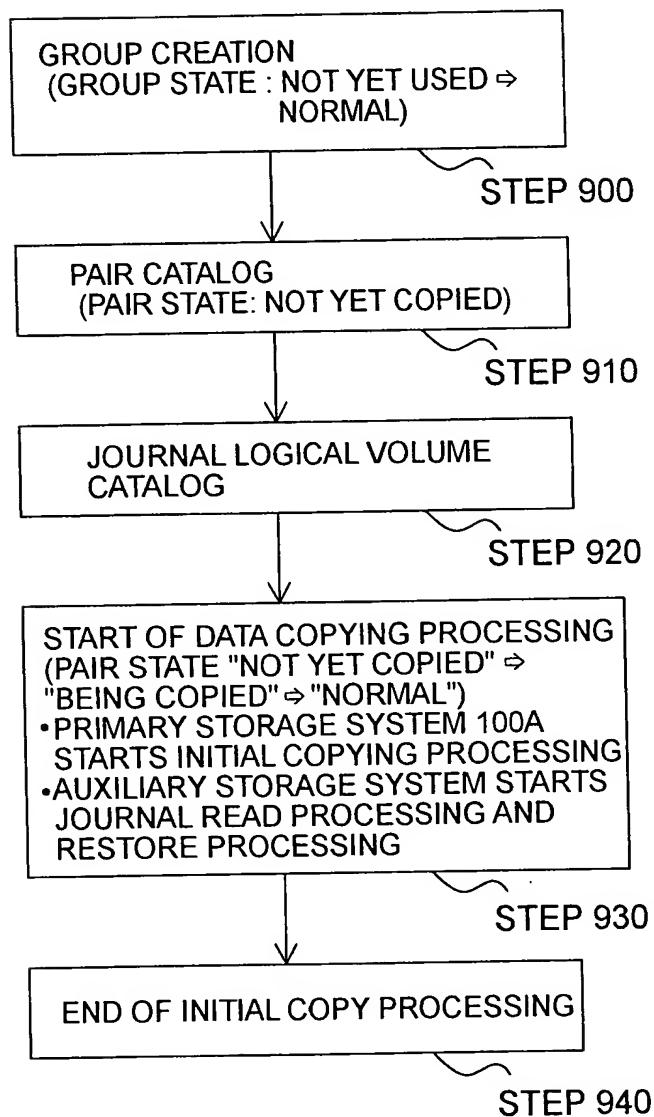
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FIG. 9



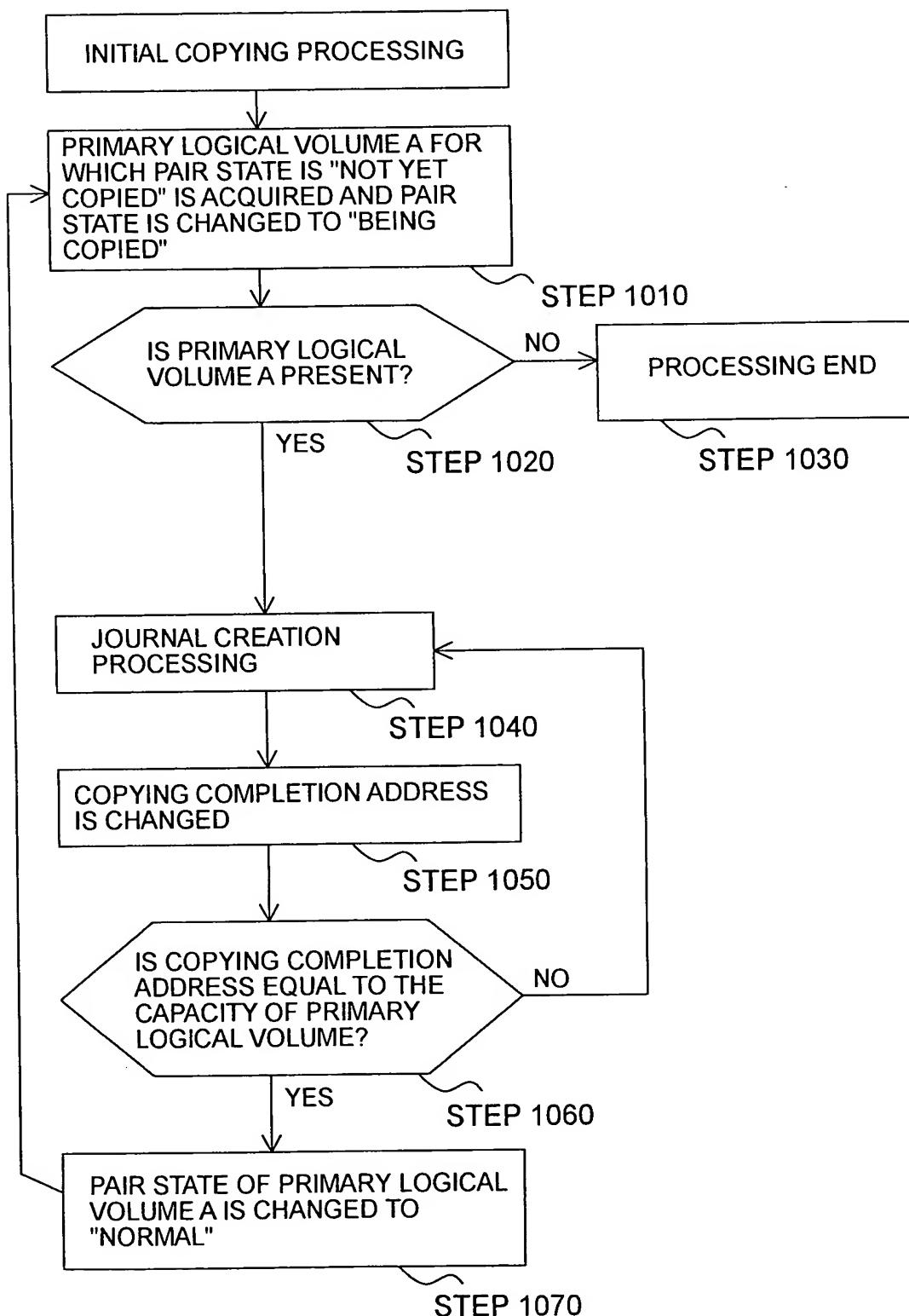
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FIG. 10



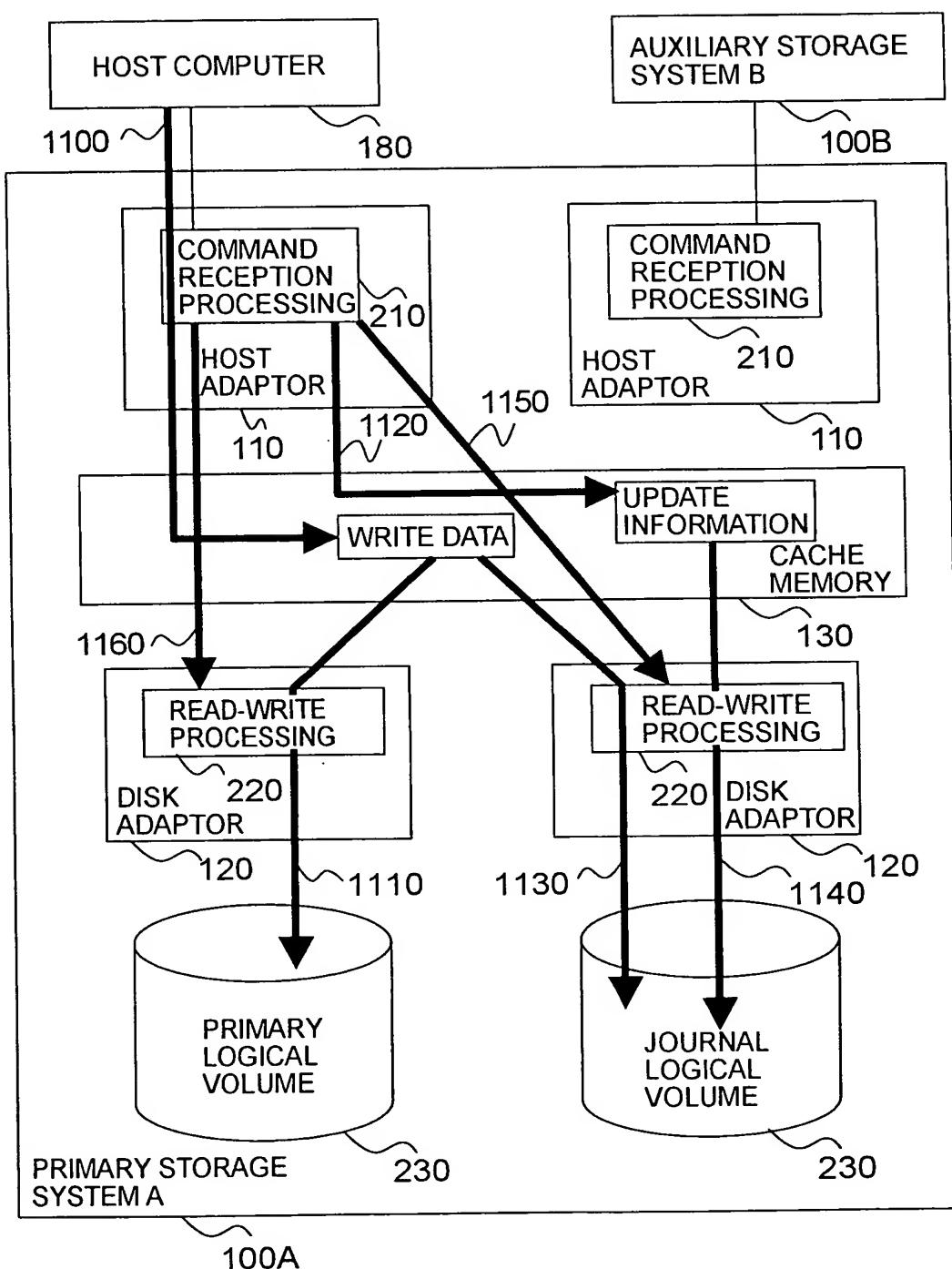
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FIG. 11



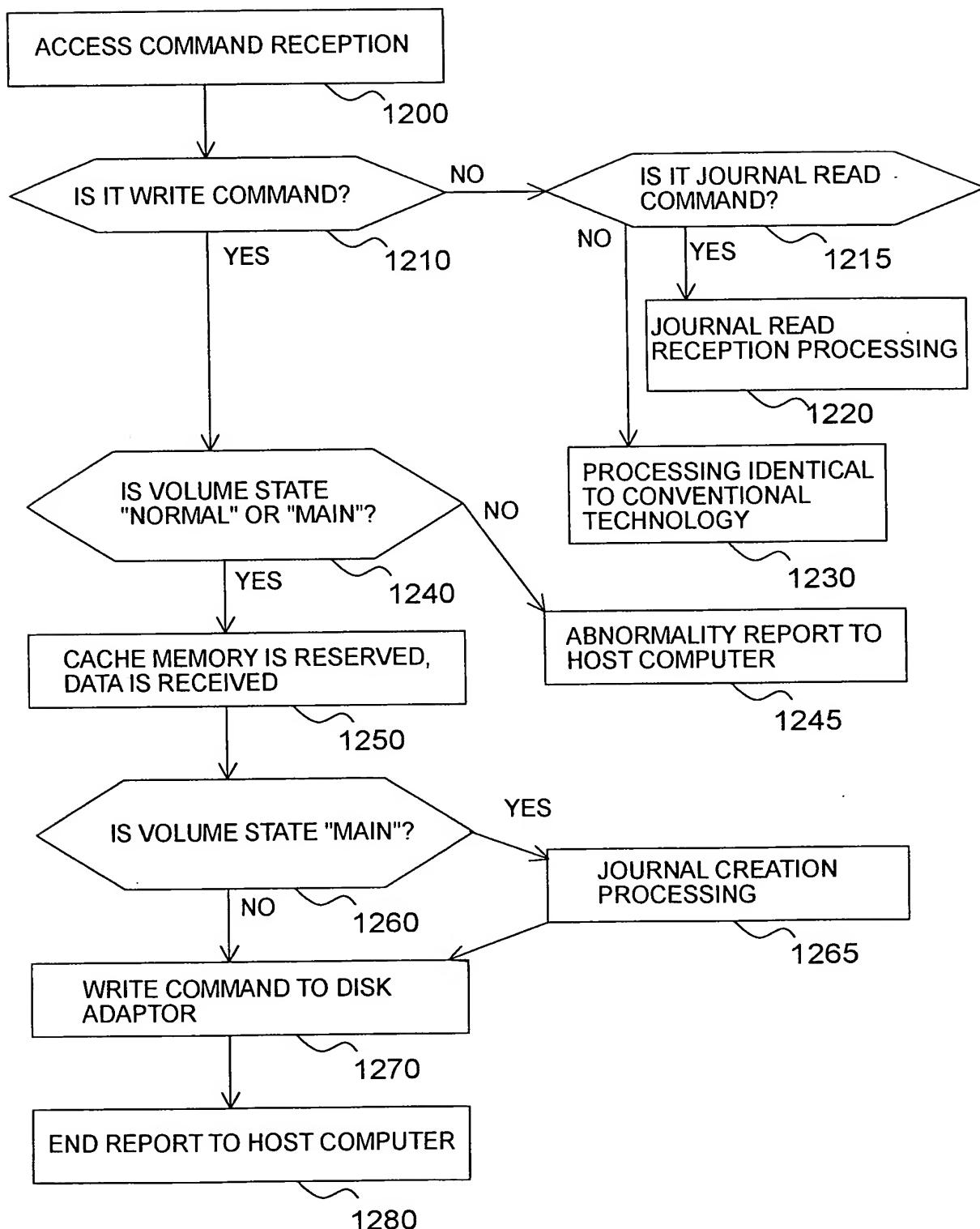
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FIG. 12



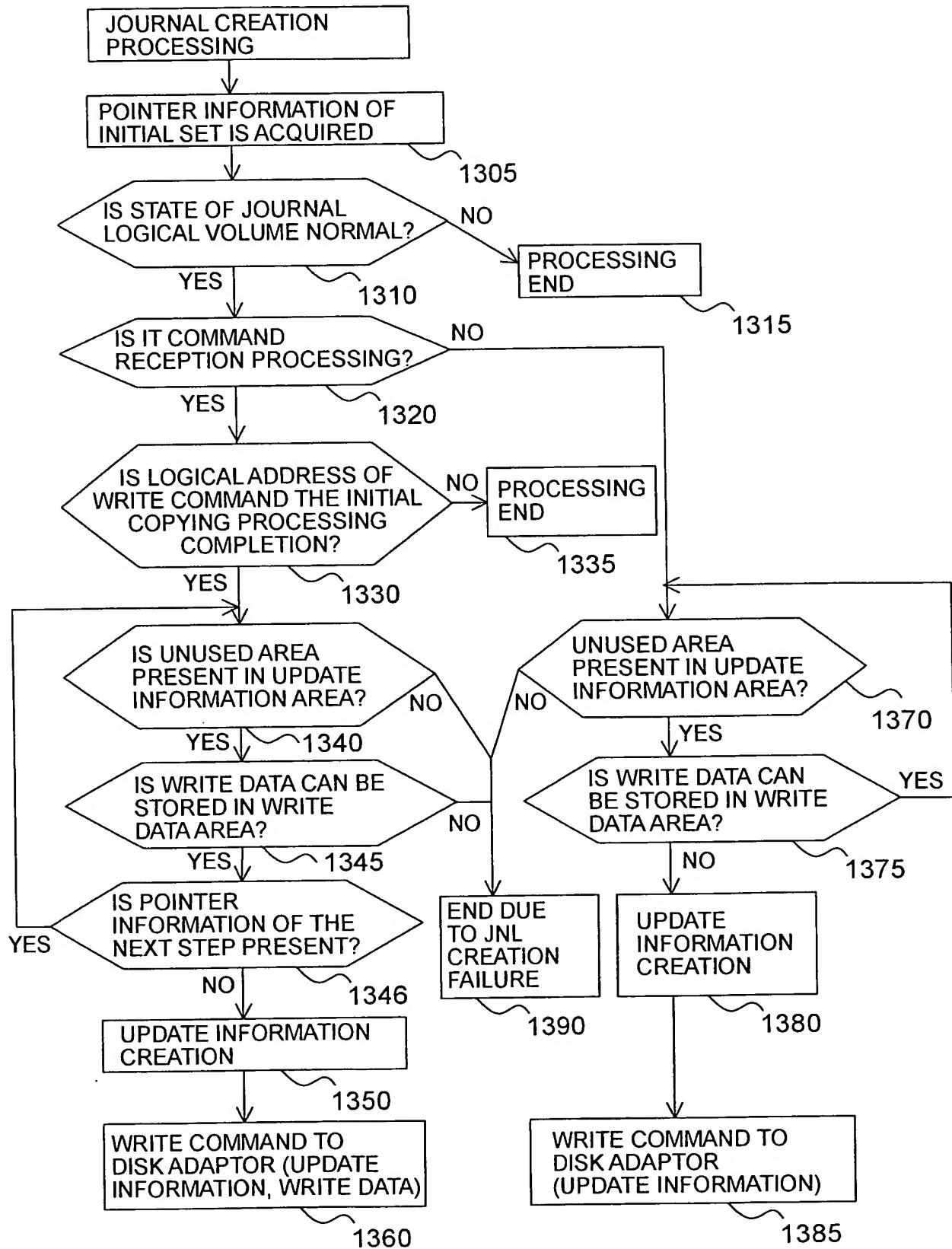
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FIG. 13



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FIG. 14



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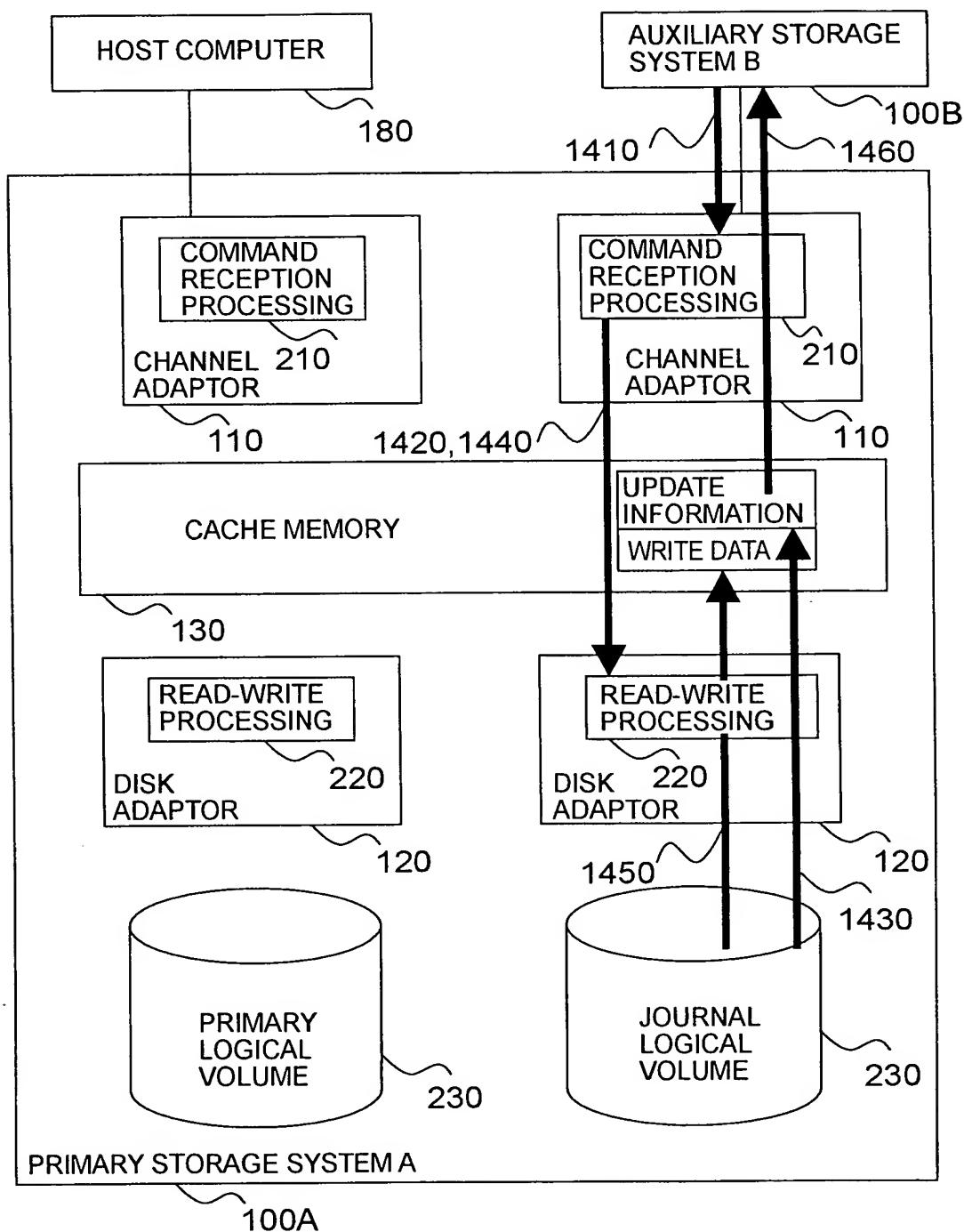
## FIG. 15

SET ITEM	SETTING VALUE EXAMPLE
TIME OF WRITE COMMAND RECEPTION	1993/3/17, 22:22:10
GROUP NUMBER	1
UPDATE NUMBER	4
LOGICAL ADDRESS OF WRITE COMMAND	LOGICAL VOLUME NUMBER: 1 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 800
DATA SIZE OF WRITE DATA	100
LOGICAL ADDRESS OF JOURNAL LOGICAL VOLUME STORING THE WRITE DATA	LOGICAL VOLUME NUMBER: 4 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 2200

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UPDATE INFORMATION

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FIG. 16



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FIG. 17

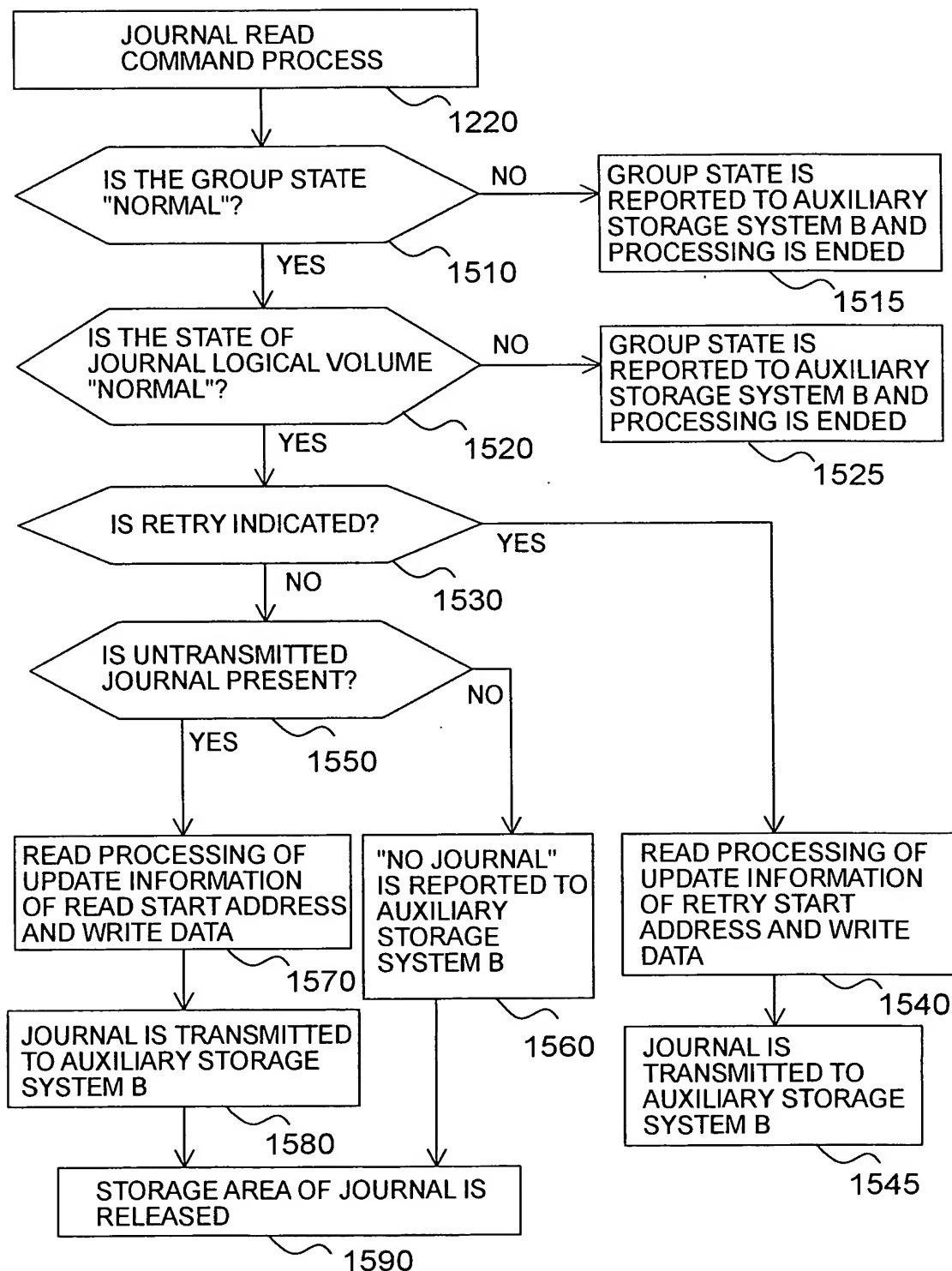
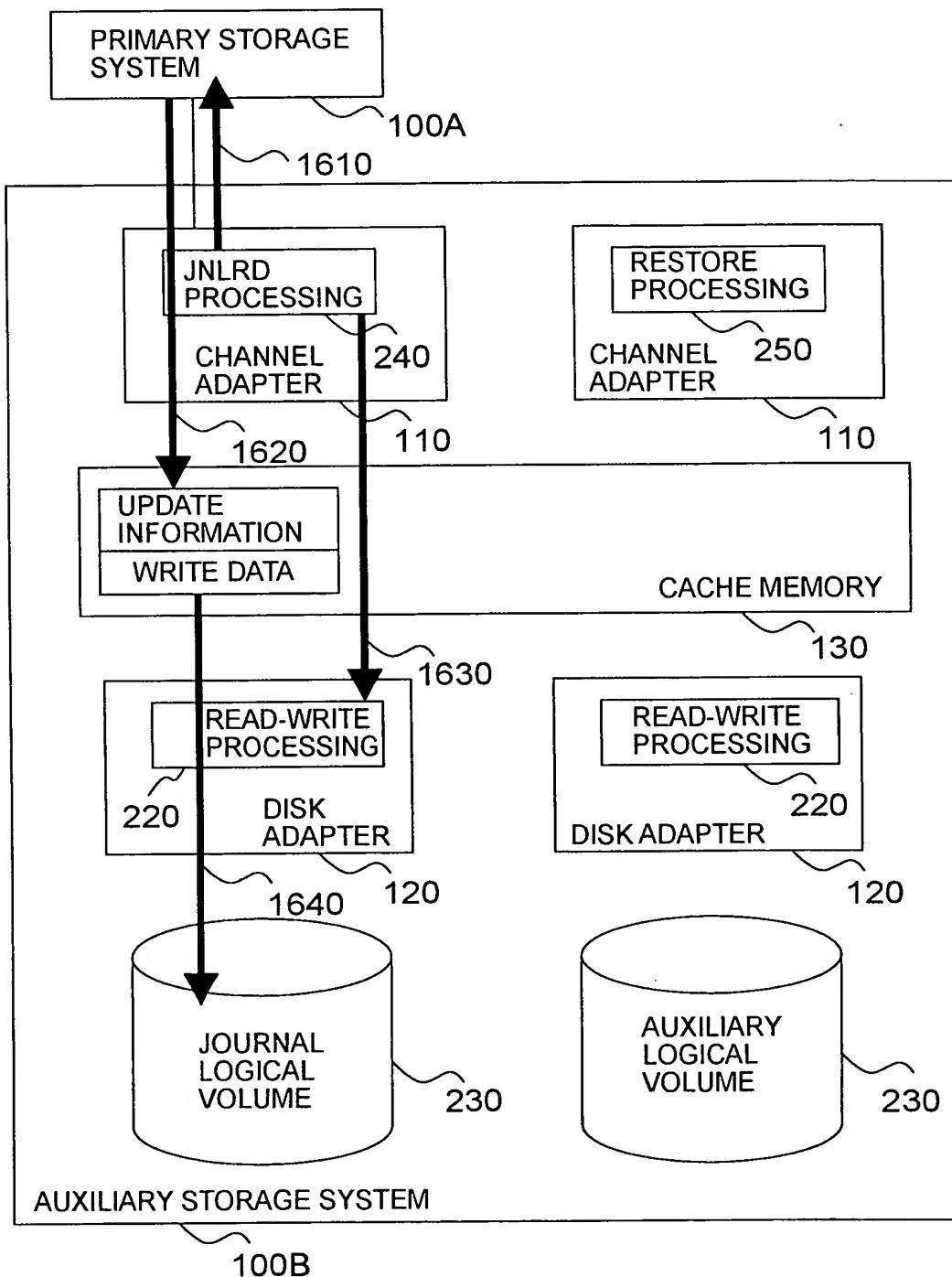
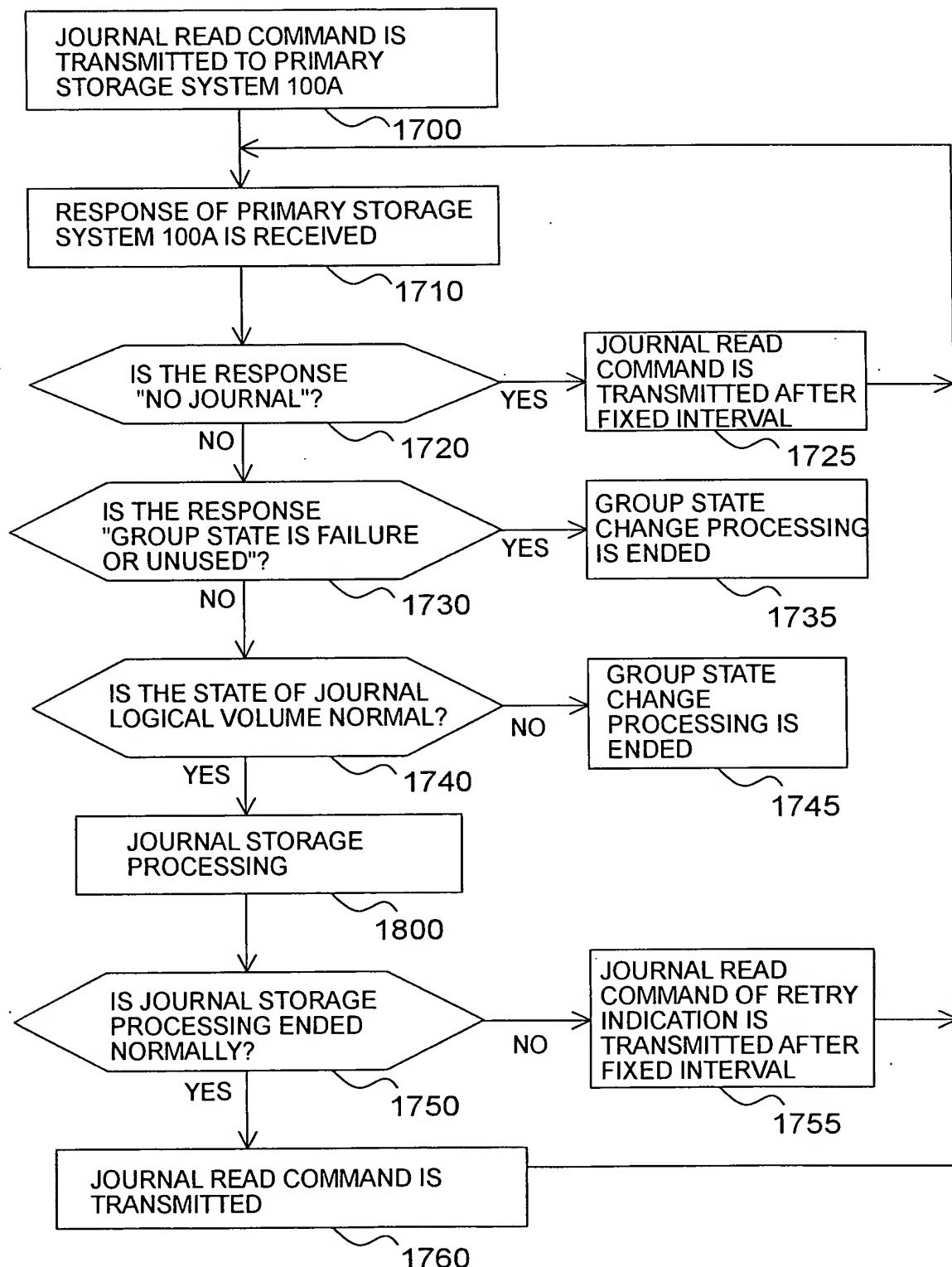


FIG. 18



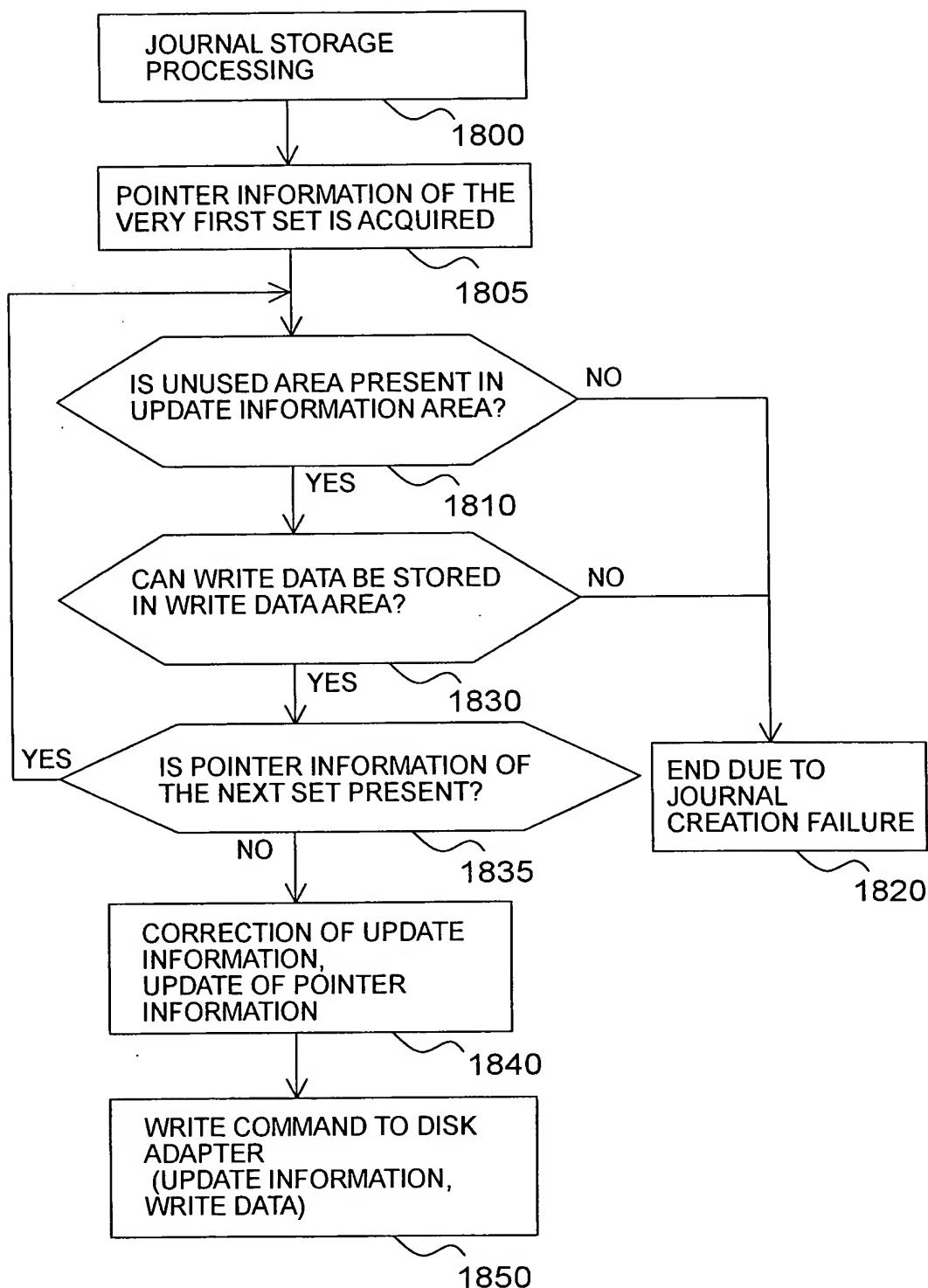
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FIG. 19



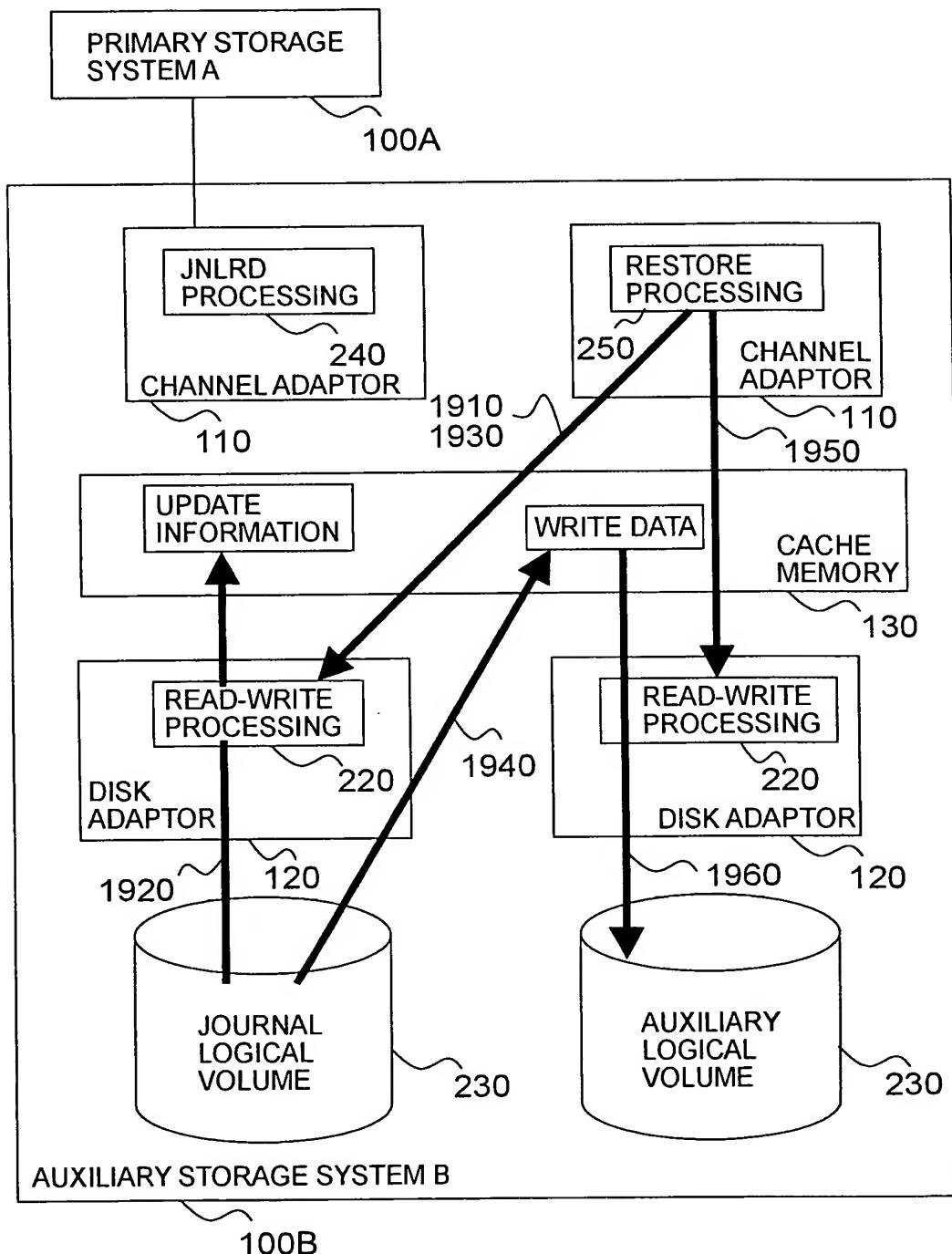
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FIG. 20



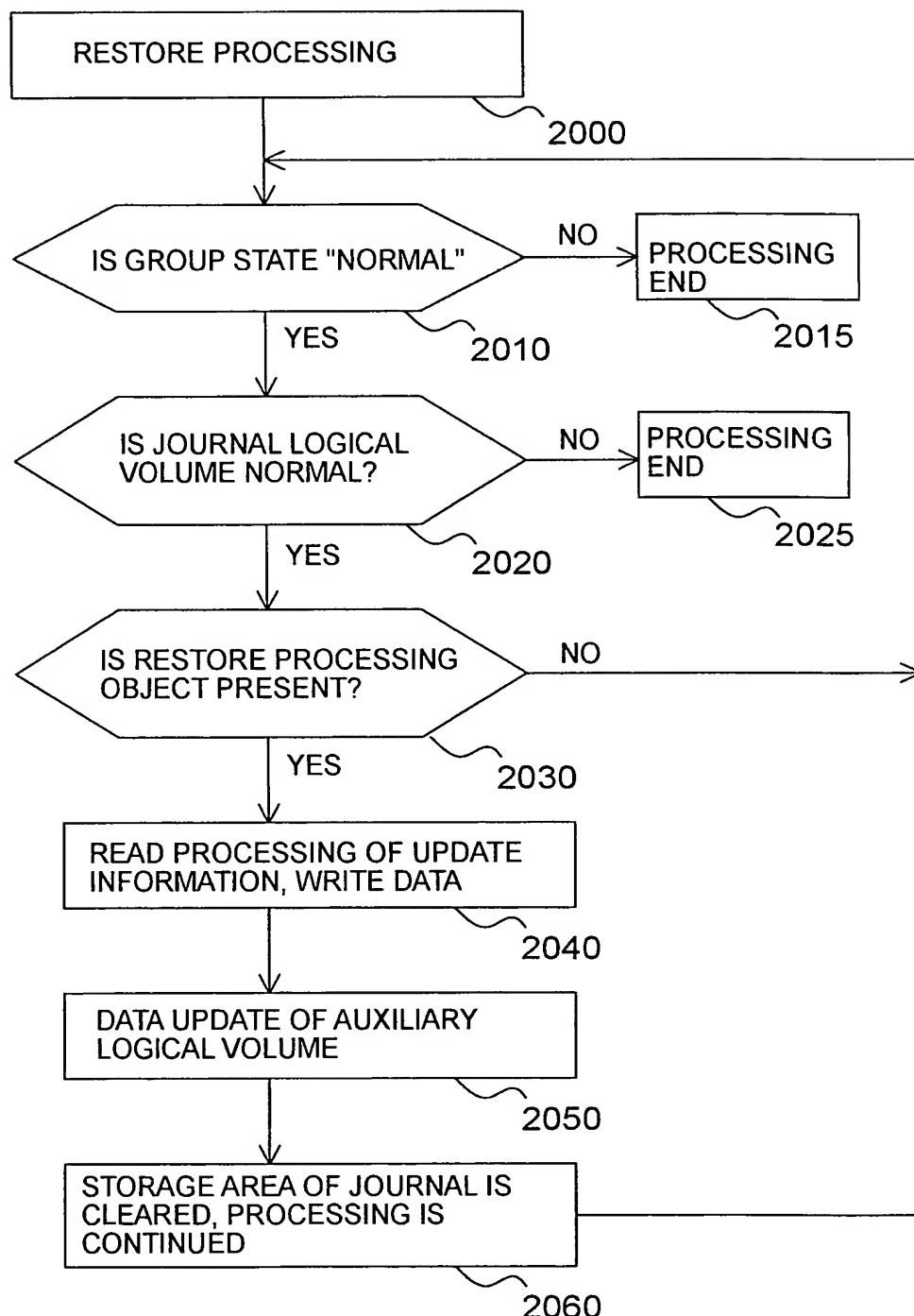
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FIG. 21



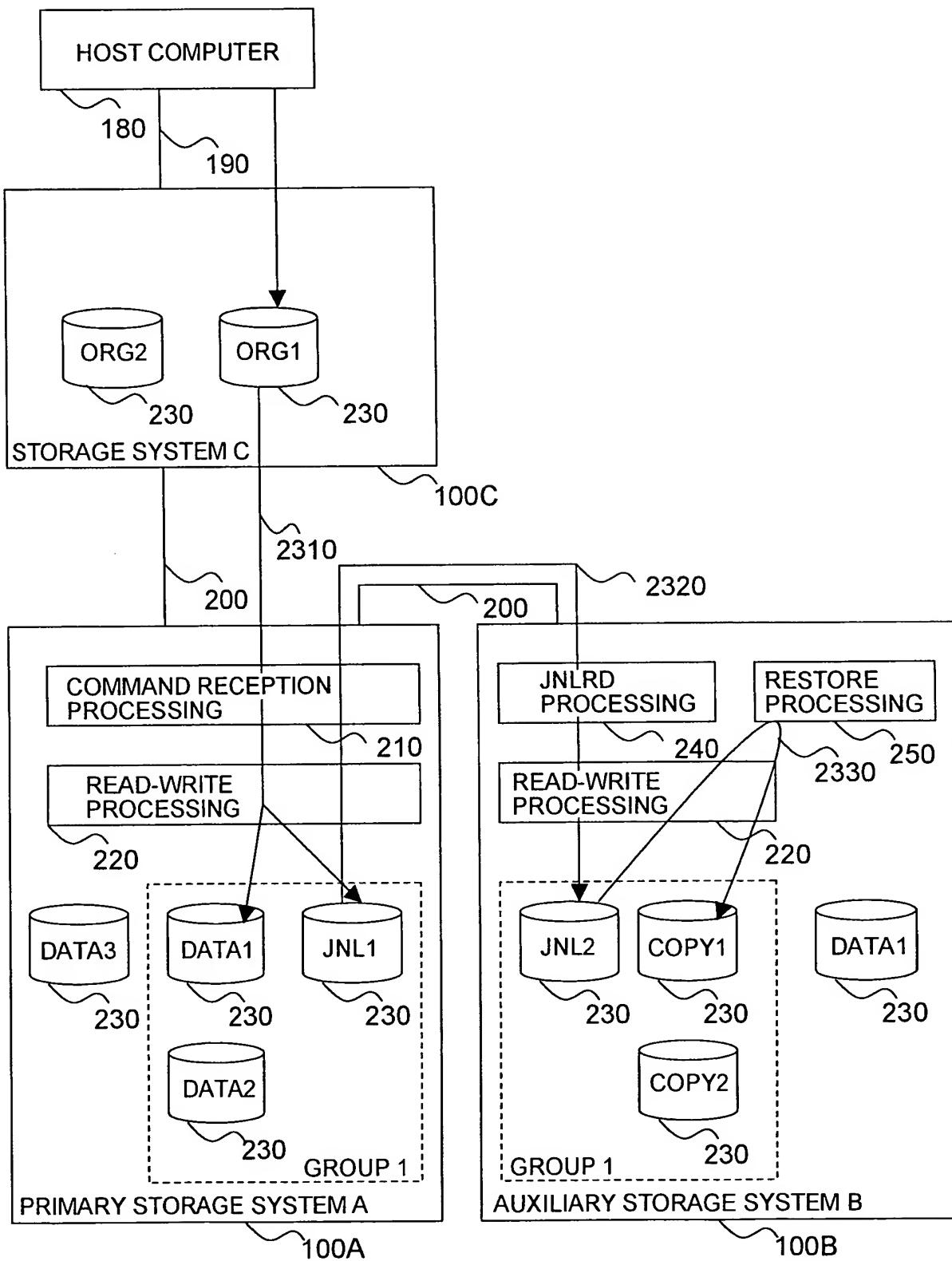
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FIG. 22



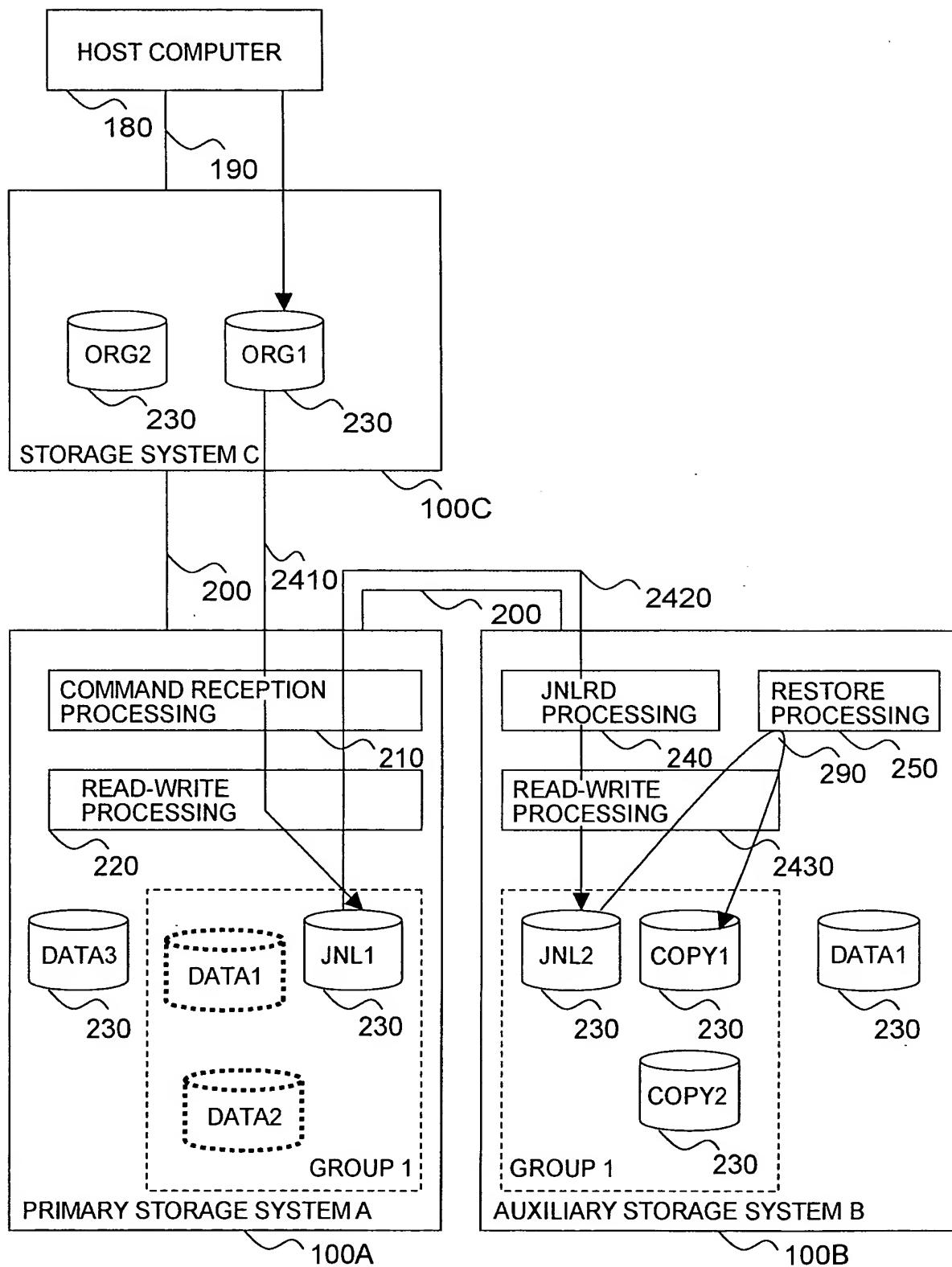
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FIG. 23



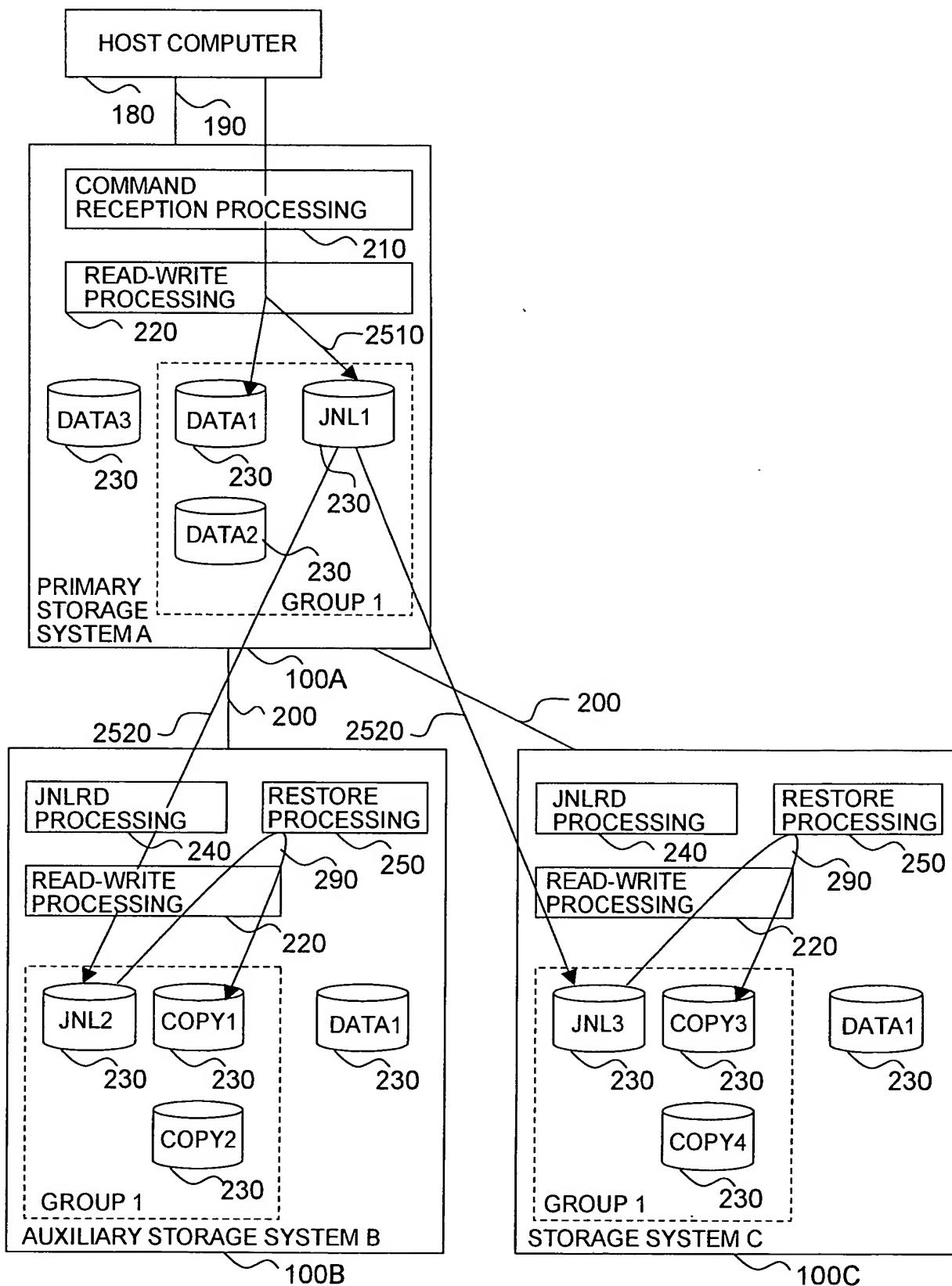
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FIG. 24



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FIG. 25



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FIG. 26

	AUXILIARY STORAGE SYSTEM NUMBER	LOGICAL ADDRESS NUMBER	POSITION OF LOGICAL VOLUME FROM THE HEAD OF STORAGE AREA
UPDATE INFORMATION AREA HEAD ADDRESS	2	4	0
WRITE DATA AREA HEAD ADDRESS	2	4	700
UPDATE INFORMATION NEWEST ADDRESS	2	4	500
UPDATE INFORMATION OLDEST ADDRESS	2	4	200
WRITE DATA NEWEST ADDRESS	2	4	2200
WRITE DATA OLDEST ADDRESS	2	4	1300
READ START ADDRESS	2	4	400
RETRY START ADDRESS	2	4	300

700B POINTER INFORMATION

	AUXILIARY STORAGE SYSTEM NUMBER	LOGICAL ADDRESS NUMBER	POSITION OF LOGICAL VOLUME FROM THE HEAD OF STORAGE AREA
UPDATE INFORMATION AREA HEAD ADDRESS	3	4	0
WRITE DATA AREA HEAD ADDRESS	3	4	700
UPDATE INFORMATION NEWEST ADDRESS	3	4	500
UPDATE INFORMATION OLDEST ADDRESS	3	4	300
WRITE DATA NEWEST ADDRESS	3	4	2200
WRITE DATA OLDEST ADDRESS	3	4	1500
READ START ADDRESS	3	4	500
RETRY START ADDRESS	3	4	400

700C POINTER INFORMATION

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FIG. 27

